## Claims

## I Claim:

- 1. A bagging apparatus for bagging articles in bags supported from a wicket, the apparatus comprising:
- a frame:
- a bag station attached to the frame, the bag station comprising a plurality of wicket support bars;
- a tooling assembly disposed vertically above and adjacent to at least one of said plurality of wicket bars;
- a bag transfer assembly attached to the frame and comprising a bag engagement element for gripping a bag dispensed from said at least one of said plurality of wicket bars and transferring said bag to a seal assembly disposed vertically below the tooling assembly; and;
- an indexing means for indexing said at least one of said plurality of wicket bars toward said tooling.
- 2. The apparatus of claim 1 wherein said indexing means indexes said at least one of said plurality of wicket bars toward said tooling upon each bagging cycle.
- 3. The apparatus of claim 2 wherein said indexing means indexes said at least one of said plurality of wicket bars a distance related to the thickness of said bag toward said tooling upon each bagging cycle.
- 4. The apparatus of claim 1 wherein said bag station comprises four wicket bars.
- 5. The apparatus of claim 1 wherein said plurality of wicket bars are disposed on a rotatable carousel attached to the frame.

- 6. The apparatus of claim 4 wherein said four wicket bars are disposed on a rotatable carousel attached to the frame.
- 7. The apparatus of claim 1 wherein said transfer assembly comprises a gripper element disposed on either side of said tooling assembly.
- 8. The apparatus of claim 7 comprising a linear actuator attached to said gripper element disposed on either side of said tooling assembly.
- 9. The apparatus of claim 7 wherein said linear actuator attached to said gripper element disposed on either side of said tooling assembly is attached to a cross beam vertically translatable about a vertical guide attached to the frame.
- 10. The apparatus of claim 2 wherein said indexing means comprises a bias element biasing a wicket wire of said at least one of said plurality of wicket bars against a reference element attached to the frame.
- 11. A method of bagging product on a bagging apparatus, the method comprising the steps:

inserting a plurality of wickets of bags on a plurality of wicket bars of a bagging apparatus comprising a means of positioning a selected wicket bar adjacent to a product tooling assembly;

opening a front bag of a selected wicket of bags;

inserting the tooling assembly into the opening of the front bag;

gripping top side edges of the front bag by grippers;

lowering the grippers holding the front bag vertically into a seal assembly;

sealing a top portion of the front bag with the seal assembly;

removing a chip portion of the bag above a seal formed in the top portion; and raising the grippers vertically for gripping a subsequent front bag presented by the selected wicket bar.

- 12. The method of claim 11 wherein the chip portion is removed from the seal in the top portion by vertical motion of the grippers.
- 13. The method of claim 11 wherein the subsequent front bag is indexed forward upon lowering the grippers holding the front bag vertically into the seal assembly.
- 14. The method of claim 11 comprising a step of positioning a second selected wicket bar adjacent to the tooling assembly after lowering the grippers holding the front bag.
- 15. The method of claim 14 wherein a rotating carousel positions the second selected wicket bar.
- 16. A gripper for a bagging apparatus comprising:
- a first gripper element and a second gripper element operably disposed so that a side seal portion of a bag is clampable between said first gripper element and said second gripper element:
- said first gripper element comprising a face portion and a groove portion recessed below the face portion wherein the second gripper element clamps the side seal portion of the bag is clamped into the groove portion.
- 17. The gripper of claim 16 wherein the groove portion has a rectangular cross section;
- 18. The gripper of claim 16 wherein the groove portion has a trapezoidal cross section;
- 19. A bag for use with automated seal equipment comprising: an upper side seal portion adjacent to a top opening of the bag; and a lower side seal portion; said upper side seal portion comprising a width less than the lower side seal portion.
- 20. The bag of claim 19 wherein the reduced width of the upper side seal portion is formed by a notch portion cut from an upper portion of a side seal.

21. The bag of claim 19 wherein a side of the bag is straight over a length of the upper side seal portion and the lower side seal portion.